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| APPLICATION NO.             | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|-------------|----------------------|---------------------|------------------|
| 10/026,482                  | 12/27/2001  | Se Chang Won         | 8733.519.00         | 7740             |
| 30827                       | 7590        | 12/04/2003           | EXAMINER            |                  |
| MCKENNA LONG & ALDRIDGE LLP |             |                      | ERDEM, FAZLI        |                  |
| 1900 K STREET, NW           |             |                      | ART UNIT            |                  |
| WASHINGTON, DC 20006        |             |                      | PAPER NUMBER        |                  |

2826

DATE MAILED: 12/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/026,482

Applicant(s)

SE ET AL.

Examiner

Fazli Erdem

Art Unit

2826

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-12 rejected under 35 U.S.C. 103(a) as being unpatentable over Ha et al. (US 2002/0186333 A1) in view of Korzen (5,699,039) further in view of Sasuga et al. (6,466,282) further in view of Lee et al. (6,587,166) further in view of Sakai et al. (6,426,784).

Regarding Claims 1-12, Ha et al. disclose a liquid crystal display device and method for assembling the same. The liquid crystal display device has a display section for displaying images, a receiving container for receiving the display section, a power supplying section for supplying a power source to the display section, a signal converting section for converting signals from the display section and a fixing section for fixing the power supplying section and the signal converting section to the receiving container. The power supplying section and the signal converting section are disposed between the display section and the fixing section with directly facing to a rear surface of the receiving container. Ha et al. fail to disclose the required inverter, the required hole projection structure, the inverter/case configuration and case configuration. However, Korzen discloses an electronic table pager and display device where the required inverter structure is disclosed. Furthermore, Sasuga et al. disclose structure of liquid crystal display device for easy assembly and disassembly where the required hole projection structure is disclosed. Lee et al. disclose a liquid crystal display module and an assembly method

therefor where the required inverter/case configuration is disclosed. Sakai et al. disclose a liquid crystal display and method for assembling the same where the required case structure is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required inverter, the hole projection structure, inverter/case configuration and case structure in Ha et al. as taught by Korzen, Sasuga et al., Lee et al., and Sakai et al. respectively in order to have a liquid crystal display device with better performance.

2. Claims 13-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (6,330,1509) in view of Shimada et al. (6,020,867) further in view of Ueda et al. (5,838,412) further in view of Lee et al. (6,587,166) further in view of Sakai et al. (6,426,784).

Regarding Claims 13-19, Kim discloses a system for exchanging lamp of LCD where the LCD apparatus capable of easily exchanging the lamp is disclosed. The liquid crystal display apparatus includes a printed circuit board, a liquid crystal display panel electrically connected with the printed circuit board for displaying a certain character or symbol and having at least one rectangular hole inwardly formed at a lateral surface of the same, a lamp detachably engaged to the rectangular hole of the liquid crystal display panel for emitting light on a screen of the liquid crystal panel, a panel bracket for integrally fixing the liquid crystal display panel and the printed circuit board, and a cover tiltably engaged at a rim portion of the panel bracket and tilted in the forward and backward directions by a tilting member for opening and closing the rectangular hole of the liquid display panel when the liquid crystal panel is integrally engaged to the panel bracket, where it's possible to easily exchange the lamp by tilting the cover in the forward and

Art Unit: 2826

backward directions. Kim fails to disclose the required inverter, the hole projection structure, the inverter/case configuration and case configuration. However, Shimada et al. disclose a display apparatus where the required inverter structure is disclosed. Furthermore, Ueda et al. disclose a liquid crystal display device assembled by flip chip technology comprising a folded multi-layered flexible driving circuit assembly. Lee et al. disclose a liquid crystal display module and an assembly method therefor where the required inverter/case configuration is disclosed. Sakai et al. disclose a liquid crystal display and method for assembling the same where the required case structure is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required inverter, hole projection structure, inverter/case configuration and case structure in Kim as taught by Shimada et al., Ueda et al., Lee et al. and Sakai et al. respectively in order to have a liquid crystal display device with better performance.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (703) 305-3868. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Application/Control Number: 10/026,482

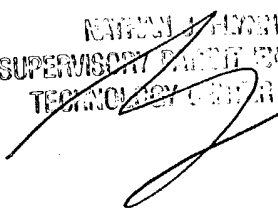
Page 5

Art Unit: 2826

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

FE

November 30, 2003

  
KATHLEEN J. FLYNN  
SUPERVISOR/ PATENT EXAMINER  
TECHNOLOGY CENTER 0000